ELSEVIER

Powder Technology 83 (1995) 291

POWDER TECHNOLOGY

Author Index of Volume 83

Aguillón, J., 79
Aktas, Z., 149
Alsop, S., 13
Anjaneyulu, P., 29

Badescu, V., 259
Baeyens, J., 139
Barillon, B., 173
Bevilacqua, P., 43
Bohin, F., 159

Capes, C.E., 225
Chambers, A.J., 193

Darcovich, K., 211, 225
de Lasa, H.I., 1
Dolgunin, V.N., 95

Feke, D.L., 159
Ferrara, G., 43
Foster, P.J., 233, 265

Gautam, M., 49
Gera, D., 49
Guigon, P., 79

Hashi, Y., 187
Helstroom, R., 193
Hong, J., 85
Huang, W.-D., 281

Imamura, T., 105

James, M.B., 201
Jin, Y., 127

Kai, T., 105
Kavanagh, P.E., 253
Khakhar, D.V., 29

Lédé, J., 173
L'Haridon, F., 111
Li, H.-S., 281
Lipka, J., 163
Lyman, G.J., 133

Manas-Zloczower, I., 159
Marcant, S., 173

Matchett, A.J., 13
Matthews, G.P., 61
Mauran, S., 111
Meloy, T.P., 43
Milioli, F.E., 233, 265
Miyanami, K., 55
Moss, A.K., 61
Murariu, V., 259

Napier-Munn, T.J., 245
Newton, J.M., 201
Nohman, A.K.H., 35
Nolan, G.T., 253

Podczeck, F., 201

Qian, R.-Z., 281

Rezlescu, N., 259
Ridgway, C.J., 61
Rotariu, O., 259

Scott, O.J., 193
Senna, M., 187

Šepelák, V., 163
Shakourzadeh, K., 79
Sobocinski, D.A., 1
Song, X., 127
Števulová, N., 163

Takahashi, T., 105
Tanaka, Z., 127
Tkáčová, K., 163
Tomita, Y., 85

Ukolov, A.A., 95

van Gauwbergen, D., 139
Villermaux, J., 173
Vinckier, I., 139

Wang, Z., 127
Watano, S., 55
Williams, M.C., 43
Woodburn, E.T., 149

Xu, L., 193

Young, B.J., 1

Zhang, Y.M., 245

Elsevier Science S.A.

ELSEVIER

Powder Technology 83 (1995) 293–296

POWDER TECHNOLOGY

Subject Index of Volume 83

Adhesion
adhesion and friction between powders and polymer or aluminium surfaces determined by a centrifuge technique, 201
Agitation bead mill
relationship between rheological properties of slurries and pore size distribution of cast and compressed compacts of mullite, 187

Bingham plastic
rheology of a gas-fluidized bed, 29
Bubble coalescence
effect of bubble coalescence on throughflow velocity in a 2-D fluidized bed, 49
Bubble measurement
hydrodynamic influences on mass transfer between bubble and emulsion phases in a fine particle fluidized bed, 105
Buoyancy
determination of the infiltration kinetics of polymer into filler agglomerates using transient buoyancy measurements, 159

Capture cross-section
capture modeling for an axial high gradient magnetic separation filter with a bounded flow field, 259
Capture length
capture modeling for an axial high gradient magnetic separation filter with a bounded flow field, 259
Cement strength characteristics
effects of particle size distribution, surface area and chemical composition on Portland cement strength, 245
Centrifuge technique
adhesion and friction between powders and polymer or aluminium surfaces determined by a centrifuge technique, 201
Ceramics
relationship between rheological properties of slurries and pore size distribution of cast and compressed compacts of mullite, 187
Chemical absorption
hydrodynamic influences on mass transfer between bubble and emulsion phases in a fine particle fluidized bed, 105
Chemical composition
effects of particle size distribution, surface area and chemical composition on Portland cement strength, 245
Circulating bed
gas–solids circulating fluidization in a packed bed, 127
Circulating beds
comparative study of non-isokinetic sampling probes for solids flux measurement in circulating fluidized beds, 79
Clinker grinding
effects of particle size distribution, surface area and chemical composition on Portland cement strength, 245
Coal flyash compacts
fracture characteristics of powder compacts, 193
Coal–oil agglomerates
a hydrodynamic simulation of mineral flotation. Part II: surface chemical effects for coal–oil agglomerate flotation, 225
Compaction
surface texture of high-area manganese oxide powders versus compaction, 35
uniaxial compaction of a very deformable porous binary mixture into a cylindrical mould, 111
Composites
uniaxial compaction of a very deformable porous binary mixture into a cylindrical mould, 111
Computer simulation
octahedral configurations in random close packing, 253
Convection
segregation modeling of particle rapid gravity flow, 95
Correlation
the effects of correlated networks on mercury intrusion simulations and permeabilities of sandstone and other porous media, 61

Data analysis
method for interpolation of 2-D histogram data: application to mineral liberation data, 133
Deformation
a two-phase elastic model of vibration in a bed of particulates, 13
Deposition
modelling of the trajectories of the particles conveyed by a gaseous jet onto a flat surface. Comparison with experiment, 173
Diffusion
segregation modeling of particle rapid gravity flow, 95
Dispersion
relationship between rheological properties of slurries and pore size distribution of cast and compressed compacts of mullite, 187
Downflow reactor
new fiber-optic method for measuring velocities of strands and solids hold-up in gas–solids downflow reactors, 1
Drying
pneumatic drying: the use of large-scale experimental data in a design procedure, 139

Edge corrections
the effects of correlated networks on mercury intrusion simulations and permeabilities of sandstone and other porous media, 61
Elasticity
a two-phase elastic model of vibration in a bed of particulates, 13
Elutriation
entrainment and elutriation modelling in bubbling fluidized beds, 233

Elsevier Science S.A.

a model for particle size distribution and elutriation in fluidized beds, 265
Entrainment
entrainment and elutriation modelling in bubbling fluidized beds, 233

Fiber-optic method
new fiber-optic method for measuring velocities of strands and solids hold-up in gas–solids downflow reactors, 1
Fines
the effect of non-ionic reagent adsorption on the froth structure and flotation performance of two low rank British coals, 149
Finite-volume method
a hydrodynamic simulation of mineral flotation. Part I: the numerical model, 211
Flotation
the effect of non-ionic reagent adsorption on the froth structure and flotation performance of two low rank British coals, 149
a hydrodynamic simulation of mineral flotation. Part I: the numerical model, 211
a hydrodynamic simulation of mineral flotation. Part II: surface chemical effects for coal–oil agglomerate flotation, 225
Fluidization
effect of bubble coalescence on throughflow velocity in a 2-D fluidized bed, 49
hydrodynamic influences on mass transfer between bubble and emulsion phases in a fine particle fluidized bed, 105
Fluidized beds
image processing for on-line monitoring of granule size distribution and shape in fluidized bed granulation, 55
entrainment and elutriation modelling in bubbling fluidized beds, 233
a model for particle size distribution and elutriation in fluidized beds, 265
an instrumented cylinder for simultaneous measurements of instantaneous local heat transfer coefficients and hydrodynamics in high-temperature fluidized beds, 281
Fluid penetration
determination of the infiltration kinetics of polymer into filler agglomerates using transient buoyancy measurements, 159
Fracture behaviour
fracture characteristics of powder compacts, 193

Gas-fluidized beds
rheology of a gas-fluidized bed, 29
Gas–solids flow
measurement of distribution of solids concentration on high density gas–solids flow using an optical-fiber probe system, 85
Granular materials
segregation modeling of particle rapid gravity flow, 95
Granulation
image processing for on-line monitoring of granule size distribution and shape in fluidized bed granulation, 55
Granule growth
image processing for on-line monitoring of granule size distribution and shape in fluidized bed granulation, 55
Gravitation of shear flow
segregation modeling of particle rapid gravity flow, 95
Grinding
method for interpolation of 2-D histogram data: application to mineral liberation data, 133
Grinding environment
contamination of quartz by iron in energy-intensive grinding in air and liquids of various polarity, 163

Heat transfer
pneumatic drying: the use of large-scale experimental data in a design procedure, 139
High solids loading ratio
measurement of distribution of solids concentration on high density gas–solids flow using an optical-fiber probe system, 85
Hydrodynamics
rheology of a gas-fluidized bed, 29
comparative study of non-isokinetic sampling probes for solids flux measurement in circulating fluidized beds, 79
gas–solids circulating fluidization in a packed bed, 127
modelling of the trajectories of the particles conveyed by a gaseous jet onto a flat surface. Comparison with experiment, 173
an instrumented cylinder for simultaneous measurements of instantaneous local heat transfer coefficients and hydrodynamics in high-temperature fluidized beds, 281

Image analysis
the effect of non-ionic reagent adsorption on the froth structure and flotation performance of two low rank British coals, 149
Image processing system
image processing for on-line monitoring of granule size distribution and shape in fluidized bed granulation, 55
Impact
modelling of the trajectories of the particles conveyed by a gaseous jet onto a flat surface. Comparison with experiment, 173
Instantaneous local heat transfer coefficient
an instrumented cylinder for simultaneous measurements of instantaneous local heat transfer coefficients and hydrodynamics in high-temperature fluidized beds, 281
Interparticle forces
uniaxial compaction of a very deformable porous binary mixture into a cylindrical mould, 111
Interphase mass transfer
a hydrodynamic simulation of mineral flotation. Part I: the numerical model, 211
Interpolation
method for interpolation of 2-D histogram data: application to mineral liberation data, 133

Jets
modelling of the trajectories of the particles conveyed by a gaseous jet onto a flat surface. Comparison with experiment, 173

Laminar flow
capture modeling for an axial high gradient magnetic separation filter with a bounded flow field, 259
Linear elastic fracture mechanics
fracture characteristics of powder compacts, 193

Magnetic particles
capture modeling for an axial high gradient magnetic separation filter with a bounded flow field, 259
Manganese oxide
surface texture of high-area manganese oxide powders versus compaction, 35
Mass transfer
segregation modeling of particle rapid gravity flow, 95
Mass transfer coefficient
hydrodynamic influences on mass transfer between bubble and emulsion phases in a fine particle fluidized bed, 105

Mercury intrusion
the effects of correlated networks on mercury intrusion simulations and permeabilities of sandstone and other porous media, 61
Mineral liberation
method for interpolation of 2-D histogram data: application to mineral liberation data, 133
Modeling
size distribution of comminuted porous materials: the oops region, 43
Modelling
a two-phase elastic model of vibration in a bed of particulates, 13
modelling of the trajectories of the particles conveyed by a gaseous jet onto a flat surface. Comparison with experiment, 173
entrainment and elutriation modelling in bubbling fluidized beds, 233
a model for particle size distribution and elutriation in fluidized beds, 265
Mössbauer spectroscopy
contamination of quartz by iron in energy-intensive grinding in air and liquids of various polarity, 163
Multi-phase CFD
a hydrodynamic simulation of mineral flotation. Part II: surface chemical effects for coal–oil agglomerate flotation, 225

Networks
the effects of correlated networks on mercury intrusion simulations and permeabilities of sandstone and other porous media, 61
Non-Newtonian
relationship between rheological properties of slurries and pore size distribution of cast and compressed compacts of mullite, 187

Octahedral configurations
octahedral configurations in random close packing, 253
On-line monitoring
image processing for on-line monitoring of granule size distribution and shape in fluidized bed granulation, 55
Optical-fiber probe
measurement of distribution of solids concentration on high density gas–solids flow using an optical-fiber probe system, 85

Packed beds
uniaxial compaction of a very deformable porous binary mixture into a cylindrical mould, 111
gas–solids circulating fluidization in a packed bed, 127
Particle characterization
size distribution of comminuted porous materials: the oops region, 43
Particle friction
adhesion and friction between powders and polymer or aluminium surfaces determined by a centrifuge technique, 201
Particle image probe
image processing for on-line monitoring of granule size distribution and shape in fluidized bed granulation, 55
Particles
modelling of the trajectories of the particles conveyed by a gaseous jet onto a flat surface. Comparison with experiment, 173
Particle size distribution
effects of particle size distribution, surface area and chemical composition on Portland cement strength, 245
Permeability
the effects of correlated networks on mercury intrusion simulations and permeabilities of sandstone and other porous media, 61
Planar configurations
octahedral configurations in random close packing, 253
Pneumatic conveying
pneumatic drying: the use of large-scale experimental data in a design procedure, 139
Pore polyhedra
octahedral configurations in random close packing, 253
Porosimetry
relationship between rheological properties of slurries and pore size distribution of cast and compressed compacts of mullite, 187
Porous materials
size distribution of comminuted porous materials: the oops region, 43
Porous media
the effects of correlated networks on mercury intrusion simulations and permeabilities of sandstone and other porous media, 61
Potential flow
capture modeling for an axial high gradient magnetic separation filter with a bounded flow field, 259
Powder agglomerates
determination of the infiltration kinetics of polymer into filler agglomerates using transient buoyancy measurements, 159
Pressure fluctuations
hydrodynamic influences on mass transfer between bubble and emulsion phases in a fine particle fluidized bed, 105
Probes
comparative study of non-isokinetic sampling probes for solids flux measurement in circulating fluidized beds, 79

Quartz
contamination of quartz by iron in energy-intensive grinding in air and liquids of various polarity, 163

Random close packing
octahedral configurations in random close packing, 253
Rheological properties
rheology of a gas-fluidized bed, 29

Sampling
comparative study of non-isokinetic sampling probes for solids flux measurement in circulating fluidized beds, 79
Sandstone
the effects of correlated networks on mercury intrusion simulations and permeabilities of sandstone and other porous media, 61
Scale-up
pneumatic drying: the use of large-scale experimental data in a design procedure, 139
Segregation
segregation modeling of particle rapid gravity flow, 95
Shape
size distribution of comminuted porous materials: the oops region, 43
Simulation
the effects of correlated networks on mercury intrusion simulations and permeabilities of sandstone and other porous media, 61
Size
size distribution of comminuted porous materials: the oops region, 43

Size distribution
size distribution of comminuted porous materials: the oops region, 43
a model for particle size distribution and elutriation in fluidized beds, 265
Slope
size distribution of comminuted porous materials: the oops region, 43
Solids distribution
measurement of distribution of solids concentration on high density gas–solids flow using an optical-fiber probe system, 85
Solids velocity
new fiber-optic method for measuring velocities of strands and solids hold-up in gas–solids downflow reactors, 1
Solids volume concentration
measurement of distribution of solids concentration on high density gas–solids flow using an optical-fiber probe system, 85
Specific grinding energy
contamination of quartz by iron in energy-intensive grinding in air and liquids of various polarity, 163
Specific iron contamination
contamination of quartz by iron in energy-intensive grinding in air and liquids of various polarity, 163
Spherical agglomerate
determination of the infiltration kinetics of polymer into filler agglomerates using transient buoyancy measurements, 159
Strand size
new fiber-optic method for measuring velocities of strands and solids hold-up in gas–solids downflow reactors, 1
Surface area
effects of particle size distribution, surface area and chemical composition on Portland cement strength, 245
Surface free energy
a hydrodynamic simulation of mineral flotation. Part II: surface chemical effects for coal–oil agglomerate flotation, 225
Surface texture
surface texture of high-area manganese oxide powders versus compaction, 35

Three-phase flow
a hydrodynamic simulation of mineral flotation. Part I: the numerical model, 211
Throughflow velocity
effect of bubble coalescence on throughflow velocity in a 2-D fluidized bed, 49
Turbulence
a hydrodynamic simulation of mineral flotation. Part I: the numerical model, 211

Vibration
a two-phase elastic model of vibration in a bed of particulates, 13
Vibration grinding
contamination of quartz by iron in energy-intensive grinding in air and liquids of various polarity, 163

Wire corrosion
capture modeling for an axial high gradient magnetic separation filter with a bounded flow field, 259